

# **SQL PROGRAMMING**

## **FIVE DAYS**

### ***Prerequisites***

Exposure to the Windows Operating System.

### ***Who Should Attend***

This course is intended for programmers, systems analysts, programmer/analysts and other data processing professionals who require an in depth knowledge of programming in Structured Query Language (SQL).

### ***Course Description***

A discussion of relational databases begins the course, followed by a presentation of table operations. Next, the Structured Query Language (SQL) is discussed. The rest of the course is devoted to accessing SQL interactively using Microsoft Access and embedding SQL. Five computer case studies are assigned: three interactive exercises and two programs using SELECT, UPDATE, INSERT, and DELETE and cursor processing.

### ***Course Topics***

- Overview of SQL
- SQL DDL
- DML Statements: SELECT
- DML: More on SELECT
- Functions
- Use of GROUP BY and HAVING
- JOINS and SUBSELECTS
- Other DML Statements
- Application Programming
- Preparing a Program for Execution
- Cursor Processing
- Additional Considerations in Application Programming